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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/427,078	10/26/1999	KENICHI SAWADA	018656-104	2696	
21839	7590 06/16/2004		EXAM	EXAMINER	
BURNS DOANE SWECKER & MATHIS L L P			YE, LIN		
POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER	
	,		2612	17	
			DATE MAILED: 06/16/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summary	09/427,078	SAWADA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Lin Ye	2612				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 01 Ap	oril 2004.					
	action is non-final.	٠				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 6-23 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>16,17 and 20-23</u> is/are allowed.						
6)☐ Claim(s) <u>18 and 19</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers	,					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119	·	·				
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
·						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summar	ry (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail [	Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		Patent Application (PTO-152)				
Paper No(s)/Mail Date	6)					
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)  Office Ac	tion Summary	Part of Paper No./Mail Date 12				

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#### **DETAILED ACTION**

### Response to Arguments

- Applicant has filed a copy of the certified English translation of applicant's priority
  art which claimed to Japanese Application JP. H10-303750, filed October 26, 1998.

  The examiner acknowledged and agrees the Nabeshima reference is not properly
  available as prior art to be applied against this application. For that reason,
  Applicant's arguments with respect to claims 6-23 have been considered but are moot
  in view of the new ground(s) of rejection.
- 2. Based on unamended claims 6-23, this rejection is made for non-final.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 6-8, 10-13 and 15-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Komiya et al. U.S. Patent 6,097,430.

Referring to claim 6, the Komiya reference discloses in Figures 1-2, 14A-B and 15, an image pick-up device comprising: a sensor (image pickup element 60, See Col. 5, lines 12-15) which picks up an image through a lens (59); a setting unit

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(Aberration correction calculation section 48 and distortion aberration correction table 27, see Figure 15, See Col. 12, lines 15-19) which sets chromatic aberration factors (a1 and a 2) based on the image data picked from a predetermined pattern (See Figure 14A, nine slid dots as a pattern on a sheet 47, and see Col. 11, lines 65-67 and Col. 12, lines 1-4); and a correction unit (distortion aberration correction section 28, see Figure 4A) which corrects image data picked up from an original image by using the chromatic aberration factors (a1 and a2) set by the setting unit (See Col. 7, lines 50-62).

Referring to claim 7, the Komiya reference discloses wherein the predetermined pattern is formed on a chromatic aberration board (sheet 47) as shown in Figure 14A.

Referring to claim 8, the Komiya reference discloses wherein the chromatic aberration board (47) is fixed in an area near a document platen (46) as shown in Figure 15.

Referring to claim 10, the Komiya reference discloses wherein the chromatic aberration factors (a1 and a2) are set for each color (RGB signals 13r, 13g and 13b, see Col. 8, lines 17-22) component (See Col. 7, lines 50-67).

Referring to claim 11, the Komiya reference discloses all subject matter as discussed with respected to same comment as with claim 6, and the reference also discloses memory (distortion aberration correction table 27), which stores the calculated chromatic aberration factors (a1 and a2, see Col. 6, lines 14-20).

Referring to claim 12, the Komiya reference discloses all subject matter as discussed with respected to same comment as with claim 7.

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Referring to claim 13, the Komiya reference discloses all subject matter as discussed with respected to same comment as with claim 8.

Referring to claim 13, the Komiya reference discloses wherein the memory is a line memory (for storing the aberration factors a1 and a2).

Referring to claim 16, the Komiya reference discloses all subject matter as discussed with respected to same comment as with claim 10.

## Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 9, 14, 17 and 20-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Komiya et al. U.S. Patent 6,097,430 in view of Hyodo U.S Patent 6,219,463.

Referring to claims 9 and 14, the Komiya reference discloses all subject matter as discussed in respected claims 1 and 11, except that the reference does not explicitly state the predetermined pattern is a ladder pattern instead of nine solid dots pattern.

The Hyodo reference discloses in Figures 1 and 6-9, an image pickup device comprising: a line sensor (CCD 26) and the predetermined pattern is a ladder pattern (3b, See Col. 11, lines 5-9 and Figure 9) is formed on a chromatic aberration board (3) (the ladder pattern 3b can be used to calculating MTF characteristic for setting a range of chromatic aberration factors, See Col. 11, lines 6-9 and lines 31-35). The

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Hyodo reference is evidence that one of ordinary skill in the art at the time to see more advantages for the image pick-up system has more flexible options to choice varies predetermined pattern for determine the chromatic aberration factors based on the type of image sensor, specially, using ladder pattern when the image sensor is line sensor and using nine dots pattern when the image sensor is two-dimensional sensor. For that reason, it would have been obvious to see the imager pickup-device can use

the ladder pattern to determine the chromatic aberration factors disclosed by Komiya.

Referring to claim 17, the Komiya reference discloses all subject matter as discussed in respected claim 1, except the reference does not explicitly show a determining unit which determines a character amount of the image data picked up from the pattern image and the chromatic aberration factors based on the character amount.

As discussed in claims 9 and 14, the Hyodo reference discloses a determining unit which determines a character amount the image data picked up from the pattern image (the ladder pattern 3b can be used to calculating MTF characteristic amount for setting a range of chromatic aberration factors, See Col. 11, lines 6-9 and lines 31-35). The Hyodo reference is evidence that one of ordinary skill in the art at the time to see more advantages for the image pick-up system using the predetermined pattern to determines a character amount of the image data and setting chromatic aberration factors based on the character amount so that chromatic aberration can be brought into advantageous conditions within a range which can be set (i.e., because when the chromatic aberration increasing exceeds a specified rate with respect to reducing the image height as far as possible, so allow the image quality to be controlled a more

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stable state, see Col. 11, lines 46-54). For that reason, it would have been obvious to see the imager pickup-device including a determining unit which determines a character amount of the image data picked up from the pattern image and the chromatic aberration factors based on the character amount disclosed by Komiya.

Referring to claim 20, the Komiya and Hyodo references disclose all subject matter as discussed with respected to same comment as with claims 7 and 17.

Referring to claim 21, the Komiya and Hyodo references disclose all subject matter as discussed with respected to same comment as with claims 8 and 17.

Referring to claim 22, the Komiya and Hyodo references disclose all subject matter as discussed with respected to same comment as with claims 9 and 17.

Referring to claim 23, the Komiya and Hyodo references disclose all subject matter as discussed with respected to same comment as with claims 10 and 17.

### Allowable Subject Matter

7. Claims 18-19 are objected to as being dependent upon a rejected base claim 17, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lin Ye whose telephone number is (703) 305-3250. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy R Garber can be reached on (703) 305-4929.

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# Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, DC. 20231

Or faxed to:

(703) 872-9306

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Lin Ye June 9, 2004